

ABSTRACT OF THE DISCLOSURE

The invention relates to a vacuum treatment chamber for work pieces which comprises at least one induction coil for at least co-generating a treatment plasma in a discharge chamber which is located in the interior of the coil. It also comprises a screen which is arranged between the discharge chamber and the coil, and which is coaxial in relation to the axis of the coil. The screen comprises slots which have a directional component which is parallel to the coil axis. The screen is formed by a self-contained body. The slots are provided along at least the main part of the body's circumference in a slot density per circumferential length unit of  $S = (\text{number of slots})/\text{cm}$  equaling  $0.5 \leq S$ .